

Title (en)  
METHOD OF CONVERTING WEBS OR SHEETS OF SECURITIES INTO BUNDLES OF SECURITIES

Publication  
**EP 0167196 B1 19880907 (DE)**

Application  
**EP 85200944 A 19850614**

Priority  
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Abstract (en)  
[origin: ES8702858A1] Processing is based on print carriers in the form of security paper webs or security paper sheets, containing security paper prints which are arranged in the manner of matrices in transverse rows and longitudinal rows and on which spoilt notes are identified by a mark which can be read by a reading instrument. The print carriers pass, in succession, by a reading instrument which detects the positions of the spoilt notes and feeds them into a computer for storage, a cancellation printer controlled by this computer, which provides spoilt notes with a cancellation print, and a numbering machine. The numbering mechanisms of this numbering machine are moved forward by the computer in such a way that always the satisfactory security paper prints, placed in succession in any longitudinal row, are serially numbered, the spoilt notes being neglected. Subsequently, the print carries, having passed by another reading instrument, are cut up into individual security papers, the spoilt notes are separated out in a separation device and the remaining, serially numbered individual security papers are assembled to form bundles, each having a complete numerical sequence. In this way, correct and complete numerical sequence of the security papers contained in the automatically produced security paper bundles and security paper parcels is ensured, in spite of the separation of spoilt notes.

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IPC 8 full level  
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Cited by  
EP1980393A1; DE10332212A1; DE102004013903A1; EP0726143A1; EP2230087A1; KR20150125959A; EP0440576A1; CN110757970A; EP0286317A1; EP0248307A1; CN106042699A; EP1731324A1; DE102013227140A1; EP0646459A1; US5590507A; EP0598679A1; EP3693178A1; WO2008126005A1; WO2006131839A2; US7975906B2; WO2007148288A3; WO2006131839A3; WO2015097007A3; EP1728628A1; WO2006129245A2; US8387496B2; US8726805B2; US8671836B2; US9403354B2; EP2902210A1; WO2015118447A2; US9931832B2; DE102013210165B4

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